

# WATER QUALITY M E M O R A N D U M

Utah Coal Regulatory Program

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February 10, 2004

TO: Internal File

THRU: Daron R. Haddock, Permit Supervisor

FROM: Gregg A. Galecki, Reclamation Specialist III

RE: 2001 Third Quarter Water Monitoring, Canyon Fuel Company, LLC, Skyline Mine, C/007/0005-WQ01-3, Task ID #77

- 1. Was data submitted for all of the MRP required sites?** YES [ x ] NO [ ]  
*Identify sites not monitored and reason why, if known:*  
The 'Summer' sampling was collected in early September (05Sept04).

- 2. On what date does the MRP require a five-year resampling of baseline water data.**  
*Renewal of the permit is April 30, 2002. The MRP makes no commitment to sampling baseline water parameters one year prior to the renewal date. No baseline parameters are even outlined. Operational parameters are the only parameters ever collected.*

Permit Renewal date 30Apr02

- 3. Were all required parameters reported for each site?** YES [ x ] NO [ ]

**4. Were irregularities found in the data?**

YES [ x ]    NO [ ]

Anomalous values from last quarter were back to normal this quarter. High Sulfate (SO<sub>4</sub>) values were noted at CS-9, S13-2 and a low SO<sub>4</sub> value at S17-2. A high Chloride (Cl) value was noted at S-13-2.

Static groundwater elevations in the following wells were noted since Fall 2000: Well 79-10-1B rose 111-feet (100-feet above Fall 1999), this well has been affected by the subsidence of Mine #3, whether through a breach in the casing or communication with mine workings; Well 79-35-1A dropped an additional 10.3 feet (177.9-feet total since June 2000); and Well W2-1 dropped 31.2 feet (78.2-feet total since June 2000). The groundwater elevations will continue to be monitored. Underground mine-inflows are affecting the water levels in the above-cited wells. This is evident in the increases in the mine discharge. No other irregularities were noted.

**5. Were DMR forms submitted for all required sites?**

1<sup>st</sup> month,    YES [ x ]    NO [ ]  
2<sup>nd</sup> month,    YES [ x ]    NO [ ]  
3<sup>rd</sup> month,    YES [ x ]    NO [ ]

All DMR information was submitted electronically.

**6. Were all required DMR parameters reported?**

YES [ x ]    NO [ ]

No flow conditions existed at the Loadout and Waste Rock facilities. Continuous discharge conditions existed from the Portal Area Discharge point.

**7. Were irregularities found in the DMR data?**

YES [ x ]    NO [ ]

Exceedances were reported for all three (3) months (Jul-Sept) for the Total Dissolved Solids (TDS) maximum daily load of 7.1 tons/day. Discharge flows averaged approximately 7,000 gpm (a 230% increase from last quarter) and TDS average approximately 421 mg/l creating a daily load of approximately 17.7 tons /day TDS. Skyline Mine is working with DWQ to modify their permit to consider the TDS values on an mg/l basis instead of tons per day limit. Based on the Colorado Salinity Forum, a daily tons limit may be omitted if the TDS in mg/l remains below 500 mg/l. This will continue to be monitored.

**8. Based on your review, what further actions, if any, do you recommend?**

No further action is necessary for the 2001 01-3 (3<sup>rd</sup>) Quarter Water Monitoring data.